APPENDIX A

The Appealed Claims

1. Wedge wire bonding apparatus comprising:

(a) means for supporting a workpiece,

(b) a bonding head including a transducer having a longitudinal axis,

(c) means for causing relative movement of the workpiece and the transducer along an X axis,

(d) means for causing relative movement of the workpiece and the transducer along a Y axis orthogonal to said X axis, and

(e) means for maintaining the bonding head in a stationary orientation above the workpiece such that the longitudinal axis of said transducer remains fixed along a line dividing said X and Y axes at all times during relative positioning of the workpiece and the transducer, for each wire bonding operation.

2. Apparatus as claimed in claim 1 wherein the line dividing the X and Y axes makes an angle of 45° to the X and Y axes.

3. Apparatus as claimed in claim 1 wherein said workpiece supporting means comprises a rotary table for rotating said workpiece.

4. Apparatus as claimed in claim 1, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

5. Apparatus as claimed in claim 1, wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

6. Apparatus as claimed in claim 1 wherein said apparatus includes a position for an operator to observe the bonding process and wherein the transducer is positioned so as to point in the direction of the operator position.

7. Apparatus as claimed in claim 2 wherein said workpiece supporting means comprises a rotary table for rotating said workpiece.

8. Apparatus as claimed in claim 2, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

9. Apparatus as claimed in claim 2 wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

10. Apparatus as claimed in claim 3, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

11. Apparatus as claimed in claim 3 wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

12. An apparatus as claimed in claim 1, wherein said means for causing relative movement of the workpiece and the transducer cause movement to occur simultaneously along both the X and Y axes.